

## RAW SEQUENCE LISTING ERROR REPORT

RECEIVED

OCT 0 7 2002

TECH CENTER 1600/2900

#19

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/646,532
Source:	1600
Date Processed by STIC:	10/1/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
  - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
  - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OCT 0 7 2002

TECH CENTER 1600/2900

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/646,532
attn: new rules cases	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3 Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
1Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



1600

```
RAW SEQUENCE LISTING
                                                                     DATE: 10/01/2002
                        PATENT APPLICATION: US/09/646,532
                                                                    TIME: 16:56:13
                        Input Set : A:\Sequence Listing.txt
                        Output Set: N:\CRF4\10012002\I646532.raw
       3 <110> APPLICANT: The Victoria University of Manchester
                Emes, Michael, James
                Tetlow, Ian, Joseph
                                                                                 Does Not Comply
                Bowsher, Caroline, Grace
                                                                             Corrected Diskette Needed
       8 <120> TITLE OF INVENTION: TRANSPORTER PROTEIN
      10 <130> FILE REFERENCE: D088125PWO
      12 <140> CURRENT APPLICATION NUMBER: US 09/646,532
() 13 <141> CURRENT FILING DATE: 2000-10-03
      15 <160> NUMBER OF SEQ ID NOS: 7
      17 <170> SOFTWARE: PatentIn Ver. 2.0
ERRORED SEQUENCES
      19 <210> SEQ ID NO: 1
      20 <211> LENGTH: 10
      21 <212> TYPE: PRT
22 <213> ORGANISM: Wheat
24 <400> SEQUENCE: 1
25 Ser Met Pro Leu Asn Ala Ala Val Lys Met
E--> 26 1 5 5 10 musalgred number-see
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 14
31 <212> TYPE: PRT
32 <213> ORGANISM: Wheat
34 <400> SEQUENCE: 2

E--> 35 Gly Ala (Xaa Xaa Xaa Glu Thr Ala Trp Ala Cys Gly (Xaa) Ala
39 <210> SEQ ID NO: 3

Lett
      22 <213> ORGANISM: Wheat
      39 <210> SEQ ID NO: 3
      40 <211> LENGTH: 9
      41 <212> TYPE: PRT
      42 <213> ORGANISM: Wheat
      44 <400> SEQUENCE: 3
E--> 45 Asn Phe Arg Tyr Thr Asn Phe Ala (Xaa)
E--> 46 1
     49 <210> SEQ ID NO: 4
     50 <211> LENGTH: 12
      51 <212> TYPE: PRT
     52 <213> ORGANISM: Wheat \rho.
      54 <400> SEQUENCE: 4
10 to musalyred nos.
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/646,532

DATE: 10/01/2002 TIME: 16:56:13

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\10012002\1646532.raw

60 <211> LENGTH: 15 61 <212> TYPE: PRT 62 <213> ORGANISM: Wheat 64 <400> SEQUENCE: 5 misaligned MS. E--> 65 Ser Val Leu Trp Thr Glu (Xaa Xaa) Asp (Xaa Xaa Xaa) Gly Phe Arg E--> 66 1 · · · · 5 -5-69 <210> SEQ ID NO: 6 70 <211> LENGTH: 8 71 <212> TYPE: PRT 72 <213> ORGANISM: Wheat  $\rho$ 3 74 <400>\(\sigma\)\(\sigma\)\(\text{EQUENCE: 6}\) misaligned tos. E--> 75 Val (Xaa) Leu Ala Pro (Xaa) Asn Pro E--> 76 1 E--> 76 1 79 <210> SEQ ID NO: 7 80 <211> LENGTH: 10 81 <212> TYPE: PRT 82 <213> ORGANISM: Wheat 84 <400> SEQUENCE: 7 E--> 85 Pro Tyr Asn (Xaa) Ala Tyr Gln Asp (Xaa) Gly to misalysed ros. E--> 86 1

VARIABLE LOCATION SUMMARY

DATE: 10/01/2002

PATENT APPLICATION: US/09/646,532

TIME: 16:56:14

Input Set : A:\Sequence Listing.txt Output Set: N:\CRF4\10012002\1646532.raw

## Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of  $\langle 220 \rangle$  to  $\langle 223 \rangle$  is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:2; Xaa Pos. 3,4,5,13

Seq#:3; Xaa Pos. 9 🐔

Seq#:4; Xaa Pos.  $4,7 \leq$ 

Seq#:5; Xaa Pos. 7,8,10,11,12 Seq#:6; Xaa Pos. 2,6 Seq#:7; Xaa Pos. 4,9

DATE: 10/01/2002 VERIFICATION SUMMARY PATENT APPLICATION: US/09/646,532

TIME: 16:56:14

Input Set : A:\Sequence Listing.txt Output Set: N:\CRF4\10012002\1646532.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:26 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1 L:35 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2 M:332 Repeated in SeqNo=2 L:45 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3 M:332 Repeated in SeqNo=3 L:55 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4 M:332 Repeated in SeqNo=4 L:65 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5 M:332 Repeated in SeqNo=5 L:75 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6 M:332 Repeated in SeqNo=6 L:85 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7 M:332 Repeated in SeqNo=7